Diabetic Medicine
Journal of the British Diabetic Association

Contents Volume 9 Numbers 1–10

January/February 1992 Number 1

DM Diary 5

Editorial
Diabetic Medicine: Physiology of a Journal *P. D. Home* 7

Review
Diabetic Macrovascular Disease and Serum Lipids: Is There a Connection? *P. K. Merrin, M. D. Feher, R. S. Elkeles* 9

Comment
Methods for the Analysis of Glycated Haemoglobins: What is Being Measured? *W. G. John, D. G. Bullock, F. MacKenzie* 15

Original Articles
Changes in Injection-site Blood Flow and Plasma Free Insulin Concentrations in Response to Stress in Type 1 Diabetic Patients *P. M. Greenhalgh, J. R. Jones, C. A. Jackson, C. C. T. Smith, J. S. Yudkin* 20

The Influence of Hypoglycaemic Agents on the Growth and Metabolism of Human Endothelial Cells *R. G. Petty, J. D. Pearson* 30

Nocturnal Subcutaneous Hyperaemia in the Lower Leg and Foot of Type 1 Diabetic Patients *J. Kastrup, J. H. Sindrup, E. Christiansen, R. Jelnes, H. Wroblewski, T. Nørgaard, H.-H. Parving* 38

Influence of Non-carbohydrate Foods on Glucose and Insulin Responses to Carbohydrates of Different Glycaemic Index in Type 2 Diabetic Patients *J. P. Le Floch, E. Baudin, P. Escuyer, E. Wirquin, P. Nillus, L. Perlemuter* 44

Paradoxical Blood Flow Responses in the Diabetic Neuropathic Foot: an Assessment of the Contribution of Vascular Denervation and Microangiopathy *M. J. Stevens, M. E. Edmonds, A. V. M. Foster, S. L. E. Douglas, P. J. Watkins* 49

The Effect of Callus Removal on Dynamic Plantar Foot Pressures in Diabetic Patients *M. J. Young, P. R. Cavanagh, G. Thomas, M. M. Johnson, H. Murray, A. J. M. Boulton* 55

Restriction Fragment Length Polymorphisms at the GLUT4 and GLUT1 Gene Loci in Type 2 Diabetes *J. C. Alcolado, M. G. Baroni* 58

The Effect of Intravenous Metformin on Glucose Metabolism During Hyperglycaemia in Type 2 Diabetes *C.-F. Sum, J. M. Webster, A. B. Johnson, C. Catalano, B. G. Cooper, R. Taylor* 61

Humoral Immune Response to a Yeast-derived Hepatitis B Vaccine in Patients with Type 1 Diabetes Mellitus *K. P. Bouter, R. J. A. Diepersloot, P. J. Wismans, F. H. J. Gmelig Meyling, J. B. L. Hoekstra, R. A. Heijtink, J. van Hattum* 66

Classification of Symptoms of Hypoglycaemia in Insulin-treated Diabetic Patients Using Factor Analysis: Relationship to Hypoglycaemia Unawareness *D. A. Hepburn, I. J. Deary, B. M. Frier* 70

Increased Hypothalamic Neuropeptide Y Messenger RNA Levels in Two Rat Models of Diabetes *P. M. Jones, A. M. Pierson, G. Williams, M. A. Ghatei, S. R. Bloom* 76

The 1-h 50-g Glucose Challenge Does Not Predict Large-for-Gestational-Age Infants *G. Phillipou* 81

Clinical Practice
An Audit of Lower Limb Arteriography in Diabetic Patients *P. I. Mansell, R. Gregson, S. P. Allison* 84

Meeting Report
The EASD in Dublin *D. A. Robertson* 91

Letter
Visual Function and Microalbuminuria *U. Dhanesha, D. Miles, N. Bradford, J. Gilchrist, J. Weatherill* 95

VOLUME CONTENTS

March 1992 — Number 2

DM Diary 101

Editorial — **A Toast to Philip Home and Newcastle upon Tyne** *A. J. M. Boulton* 103

Lawrence Lecture — **Resistance to Injection: 1991 RD Lawrence Lecture** *R. Taylor* 104

Review — **Diabetes Care in British Prisons: Existing Problems and Potential Solutions** *G. V. Gill, I. A. MacFarlane, N. Tucker* 109

Original Articles — **Arterial Wall Compliance in Diabetes** *E. D. Lehmann, R. G. Gosling, P. H. Sönksen* 114

Hyperglycaemia, Hypoglycaemia, and Blood Glucose Control in Diabetes: Symptom Perceptions and Treatment Strategies *W. H. Polonsky, C. L. Davis, A. M. Jacobson, B. J. Anderson* 120

Polyunsaturated Fatty Acids May Impair Blood Glucose Control in Type 2 Diabetic Patients *B. Vessby, B. Karlström, M. Boberg, H. Lithell, C. Berne* ... 126

A Comparison of the Predictive Power for Overall Blood Glucose Control of a 'Good' Fasting Level in Type 2 Diabetic Patients on Diet Alone or with Oral Agents *M. Trovati, S. Burzacca, E. Mularoni, P. Massucco, F. Cavalot, L. Mattiello, G. Anfossi* 134

Measuring the Albumin Excretion Rate: Agreement Between Methods and Biological Variability *T. F. Cundy, D. Nixon, L. Berkahn, J. Baker* 138

Glomerular Volume in Kidneys Transplanted into Diabetic and Non-diabetic Patients *R. Østerby, G. Nyberg, I. Karlberg, C. Svalander* 144

Changes in Renal Function During Acute Insulin-induced Hypoglycaemia in Patients with Type 1 Diabetes *A. W. Patrick, D. A. Hepburn, C. P. Swainson, B. M. Frier* 150

Neuropsychological Performance Differs Between Type 1 Diabetic and Normal Men During Insulin-induced Hypoglycaemia *A. Wirsén, G. Tallroth, M. Lindgren, C.-D. Agardh* 156

Assessment of Cardiovascular Autonomic Function: Age-related Normal Ranges and Reproducibility of Spectral Analysis, Vector Analysis, and Standard Tests of Heart Rate Variation and Blood Pressure Responses *D. Ziegler, G. Laux, K. Dannehl, M. Spüler, H. Mühlen, P. Mayer, F. A. Gries* .. 166

Clinical Practice — **Improved Diabetes Care in a UK Health District** *J. N. Jones, P. Marsden* 176

Diabetic Diets and Nutritional Recommendations: What Happens in Real Life? *E. J. Close, P. G. Wiles, J. A. Lockton, D. Walmsley, J. Oldham, J. K. Wales* 181

BDA Report — **Dietary Recommendations for People with Diabetes: An Update for the 1990s** *Nutrition Subcommittee of the British Diabetes Association's Professional Advisory Committee* 189

Case Report — **Diabetic Neuropathic Cachexia Associated with Malabsorption** *D. F. D'Costa, D. E. Price, A. C. Burden* 203

Letter — **Fructosamine Measurement** *D. R. Jury, P. J. Dunn* 206

Media Review 207

April 1992 — Number 3

DM Diary 213

Forthcoming Papers 214

Editorial — **Are Some Animals More Equal Than Others?** *G. Williams, A. W. Patrick* 215

Review — **Pathogenesis of Diabetic Microangiopathy: The Roles of Endothelial Cell and Basement Membrane Abnormalities** *D. K. Yue, S. V. McLennan, J. R. Turtle* 218

Original Articles

Genetic, Immunological, and Metabolic Determinants of Risk for Type 1 Diabetes Mellitus in Families *R. B. Lipton, J. Atchison, J. S. Dorman, R. J. Duquesnoy, K. Eckenrode, T. J. Orchard, R. E. LaPorte, W. J. Riley, L. H. Kuller, A. L. Drash, D. J. Becker* 224

Breast Feeding and the Development of Type 1 Diabetes Mellitus *K. O. Kyvik, A. Green, A. Svendsen, K. Mortensen* 233

Intraregional Differences in the Absorption of Unmodified Insulin From the Abdominal Wall *A. Frid, B. Linde* 236

Metabolic Effects of Monomeric Insulin Analogues of Different Receptor Affinity *D. A. Robertson, B. M. Singh, P. J. Hale, I. Jensen, M. Nattrass* 240

'Spontaneous' Platelet Aggregation in Whole Blood in Diabetic Patients With and Without Microvascular Disease *T. J. Hendra, J. S. Yudkin* 247

Pulmonary Gas Exchange and Oxygen Uptake During Exercise in Patients with Type 1 Diabetes Mellitus *Th. Wanke, D. Formanek, M. Auinger, H. Zwick, K. Irsigler* 252

Ethnic Differences in Insulin Secretion in Women at Risk of Future Diabetes *A. Dornhorst, S. P. Chan, S. V. Gelding, J. S. D. Nicholls, C. Baynes, R. S. Elkeles, R. W. Beard, V. Anyaoku, D. G. Johnston* 258

Skin Epidermal Thickness and Vascular Density in Type 1 Diabetes *R. A. Malik, J. Metcalfe, A. K. Sharma, J. L. Day, G. Rayman* 263

Clinical Practice

Near Visual Acuity: A Simple Measure of Practical Significance in Insulin-treated Diabetic Patients *G. Caldwell* 268

Management of Diabetes in Surgery: A Survey of Current Practice by Anaesthetists *J. D. A. Clark, J. Currie, M. Hartog* 271

Work-load and Outcomes of Diabetes Care in General Practice *C. Bradshaw, M. P. Eccles, I. N. Steen, H. Y. Choi* 275

Clinical and Laboratory Features of Type 1 Diabetic Children at the Time of Diagnosis *C. Lévy-Marchal, L. Papoz, C. de Beaufort, J. Doutreix, V. Froment, J. Voirin, P. Czernichow* 279

Innovative Care

Editorial: A Depressing Problem 285

Impotence in Diabetes: Facts and Fictions 287

Women's Problems and Diabetes 290

Graphical Displays of Capillary Blood Glucose Data Using Chernoff Faces 293

Edinburgh and Lothians Self-help Group for Visually Impaired Diabetic Patients 295

Rostrum

New Insights on Non-enzymatic Glycosylation May Lead to Therapeutic Approaches for the Prevention of Diabetic Complications *A. Ceriello, A. Quatraro, D. Giugliano* 297

BDA Report

British Diabetic Association's Discussion Paper on the Role of 'Diabetic' Foods *B. Thomas and the Nutrition Subcommittee of the British Diabetic Association's Professional Advisory Committee* 300

Case Report

A Case of Nephrotic Syndrome and Renal Dysfunction in a Pregnant Woman with Diabetes Mellitus *K. Hironaka, H. Makino, I. Kumagai, T. Haramoto, Y. Yamasaki, K. Shikata, M. Takahashi, M. Nishii, Z. Ota* 307

May 1992 **Number 4**

DM Diary 317

Erratum 317

Forthcoming Papers 318

Editorial

Why We Need to Shout About Diabetes Research! *L. B. O'Toole* 319

Review

Aetiology of Diabetic Foot Ulceration: a Role for the Microcirculation? *M. D. Flynn, J. E. Tooke* 320

VOLUME CONTENTS

Comment

Susceptibility to Diabetes and the Major Histocompatibility Complex: the 57th Residue Affair *P. Del Guercio* 330

Original Articles

Intranasal Administration of Insulin with Phospholipid as Absorption Enhancer: Pharmacokinetics in Normal Subjects *K. Drejer, A. Vaag, K. Bech, P. Hansen, A. R. Sorensen, N. Mygind* 335

The Effects of Dexfenfluramine on Blood Glucose Control in Patients with Type 2 Diabetes *K. A. Willey, L. M. Molyneaux, J. E. Overland, D. K. Yue* ... 341

Body Fat and Overweight Among Children and Adolescents with Diabetes Mellitus *J. W. Gregory, A. C. Wilson, S. A. Greene* 344

The Prevalence of Diabetic Distal Sensory Neuropathy in an English Community *D. P. Walters, W. Gatling, M. A. Mullee, R. D. Hill* 349

The Distribution and Severity of Diabetic Foot Disease: a Community Study with Comparison to a Non-diabetic Group *D. P. Walters, W. Gatling, M. A. Mullee, R. D. Hill* 354

Discrimination Between Painful and Painless Diabetic Neuropathy Based on Testing of Large Somatic Nerve and Sympathetic Nerve Function *C. Tsigos, A. White, R. J. Young* 359

Serum and Urinary Concentrations of Type IV Collagen and Laminin as a Marker of Microangiopathy in Diabetes *Y. Hayashi, H. Makino, Z. Ota* 366

Sex Hormone Binding Globulin Levels in Adolescent Subjects with Diabetes Mellitus *J. M. P. Holly, D. B. Dunger, S. A. Al-Othman, M. O. Savage, J. A. H. Wass* 371

Quality of Life in Young Adults with Type 1 Diabetes in Relation to Demographic and Disease Variables *C. Eiser, M. Flynn, E. Green, T. Havermans, R. Kirby, D. Sandeman, J. E. Tooke* 375

Hospital In-patient Statistics Underestimate the Morbidity Associated with Diabetes Mellitus *P. J. Leslie, A. W. Patrick, D. A. Hepburn, I. J. Scougal, B. M. Frier* 379

Clinical Practice

Use of the Accident and Emergency Department by Patients with Diabetes *K. I. Holmwood, D. R. R. Williams, J. M. Roland* 386

The Diabetes Annual Review as an Educational Tool: Assessment and Learning Integrated with Care, Screening, and Audit *The North Tyneside Diabetes Team* 389

Case Report

Treatment of Insulin Lipohypertrophy with Liposuction *H. J. Bodansky, F. S. C. Browning* 395

Letter

Human Insulin Gone Wrong *R. Tattersall* 397

Media Review 399

June 1992 — Number 5

DM Diary 404

Editorial

'Glycosuria: Please Advise'. Reflections on Undergraduate Medical Education *T. L. Dornan* 407

Review

Oral Disorders Associated with Diabetes Mellitus *P.-J. Lamey, A. M. G. Darwazeh, B. M. Frier* 410

Original Articles

Recent Trends in Diabetes Mortality in England and Wales *J. Stephenson, A. J. Swerdlow, T. Devis, J. H. Fuller* 417

Mortality of All Incident Cases of Diabetes Mellitus in Sweden Diagnosed 1983–1987 at Age 15–34 Years *L. Nyström, J. Östman, S. Wall, L. Wibell, and the Diabetes Incidence Study in Sweden (DISS) Group* 422

Prevalence of Diabetes in Different Regional and Religious South Asian Communities in Coventry *D. Simmons, D. R. R. Williams, M. J. Powell* 428

The Short Insulin Tolerance Test for Determination of Insulin Sensitivity: a Comparison with the Euglycaemic Clamp *A. Akinmokun, P. L. Selby, K. Ramaiya, K. G. M. M. Alberti* 432

Sequential Metabolic Studies of Pancreas Allograft Function in Type 1 Diabetic Recipients *D. A. Cottrell, M. L. Henry, T. M. O'Dorisio, R. J. Tesi, R. M. Ferguson, K. Osei* 438

The Use of Low Glycaemic Index Foods Improves Metabolic Control of Diabetic Patients Over Five Weeks *A. M. Fontvieille, S. W. Rizkalla, A. Penfornis, M. Acosta, F. R. J. Bornet, G. Slama* 444

Beneficial Effect of a Low Glycaemic Index Diet in Type 2 Diabetes *T. M. S. Wolever, D. J. A. Jenkins, V. Vuksan, A. L. Jenkins, G. C. Buckley, G. S. Wong, R. G. Josse* 451

Screening for Diabetic Retinopathy in a Widely Spaced Population Using Non-mydriatic Fundus Photography in a Mobile Unit *G. P. Lesse, R. W. Newton, R. T. Jung, W. Haining, A. Ellingford, and the Tayside Mobile Eye Screening Unit* 459

A 12-Month Randomized Controlled Study of the Aldose Reductase Inhibitor Ponalrestat in Patients with Chronic Symptomatic Diabetic Neuropathy *A. J. Krentz, L. Honigsberger, S. H. Ellis, M. Hardman, M. Nattrass* 463

Problems with Gait and Posture in Neuropathic Patients with Insulin-dependent Diabetes Mellitus *P. R. Cavanagh, J. A. Derr, J. S. Ulbrecht, R. E. Maser, T. J. Orchard* 469

Diabetes Education: Whose Priorities are Met? *N. M. Genev, J. R. Flack, P. L. Hoskins, J. E. Overland, D. K. Yue, J. R. Turtle* 475

Clinical Practice

The Effect of Diabetes Mellitus on the Outcome of Angioplasty for Lower Limb Ischaemia *A. H. Davies, S. E. Cole, T. R. Magee, D. J. A. Scott, R. N. Baird, M. Horrocks* 480

Rostrum

Hypoglycaemic, Antihyperglycaemic and Antidiabetic Drugs *C. J. Bailey* ... 482

International Scene

Diabetes Mellitus in the Gambia, West Africa *M. Rolfe, C. M. Tang, R. W. Walker, E. Bassey, M. George* 484

Letters

Minimal Models and the Labelled IVGTT *I. F. Godsland, C. Walton* 489

Reply from Caumo et al. *A. Caumo, A. Giacca, M. Morgese, G. Pozza, P. Micossi, C. Cobelli* 490

Media Review 492

Forthcoming Papers 493

July 1992 **Number 6**

DM Diary 500

Editorial

Resource Management: Friend or Foe? *R. J. Young* 501

Review

Measurement of Insulin Secretion in Type 2 Diabetes: Problems and Pitfalls *R. Temple, P. M. S. Clark, C. N. Hales* 503

Comment

Evaluation of Type 1 Diabetes in Black African-heritage Populations: No Time for Further Neglect *E. S. Tull, M. H. Makame for the Diabetes Epidemiology Research International (DERI) Group* 513

Original Articles

Symptomatic and Hormonal Hypoglycaemic Responses to Human and Porcine Insulin in Patients with Type 1 Diabetes Mellitus *J. P. Ferrer, E. Esmatjes, J. M. González-Clemente, A. Goday, I. Conget, W. Jiménez, R. Gomis, F. Rivera, E. Vilardell* 522

Hormonal Counterregulation, Symptom Awareness, and Neurophysiological Function in Type 1 Diabetes During Insulin-induced Hypoglycaemia *Th. Lingenfelser, U. W. Buettner, C. Plonz, J. Steffen, M. Eggstein, B. Jakober* .. 528

Hypoglycaemia and Cardiac Arrhythmias in Patients with Type 2 Diabetes Mellitus *T. Lindström, L. Jorfeldt, L. Tegler, H. J. Arnqvist* 536

Gastric Inhibitory Polypeptide (GIP) Response in Diabetes Using a Highly Specific Antiserum *M. J. Alam, J. I. Kerr, K. Cormican, K. D. Buchanan* 542

Thermal Threshold Testing for the Assessment of Small Fibre Dysfunction: Normal Values and Reproducibility *B. Bravenboer, P. S. van Dam, J. Hop, J. v.d. Steenhoven, D. W. Erkelens* ... 546

Screening Programme for Microvascular Complications and Hypertension in a Community Diabetic Population *E. R. Higgs, A. Kelleher, H. C. R. Simpson, J. P. D. Reckless* ... 550

The Prevalence of Hypercholesterolaemia and its Relationship with Albuminuria in Insulin-dependent Diabetic Patients: An Epidemiological Study *A. B. Haaber, A. Kofoed-Enevoldsen, T. Jensen* ... 557

Can Life-styles of Subjects With Impaired Glucose Tolerance be Changed? A Feasibility Study *R. C. L. Page, K. E. Harnden, J. T. E. Cook, R. C. Turner* .. 562

Clinical Practice

Five Year Audit of Peripartum Blood Glucose Control in Type 1 Diabetic Patients *E. Njenga, T. Lind, R. Taylor* ... 567

International Scene

Childhood Diabetes, Insulin, and Africa *M. H. Makame for the DERI Study Group* ... 571

Diabetes Mellitus in Bahrain: An Overview *A. O. Musaiger* ... 574

Meeting Report

The Liverpool Symposium on Human Insulin and Hypoglycaemia *A. W. Patrick, G. Williams* ... 579

Media Review ... 581

Letters

Changes in Brainstem Auditory Evoked Potentials During Insulin-induced Hypoglycaemia in Type 1 Diabetic Patients *D. Ziegler, A. Hübinger, F. A. Gries* ... 582

Doxazosin: Alternative Antihypertensive Treatment *H. J. Bodansky* ... 583

Ramadan Fasting in Diabetic Children in Riyadh *H. Salman, M. A. Abdallah, M. A. Abanamy, M. Al Howasi* ... 583

August/September 1992 — Number 7

DM Diary ... 588

Editorial

Diabetes Care Progress Report: Shows Promise, Could Do Better *S. Tomlinson* ... 590

Comment

Facilities in Diabetic Clinics in the UK: How Much Have They Changed? *D. R. R. Williams, G. S. Spathis* ... 592

Is Insulin Atherogenic? *P. N. Durrington* ... 597

Original Articles

The Effect of Chronic Hyperglycaemia on the Islet B-cell Responsiveness in Newly Diagnosed Type 2 Diabetes *H. J. Gjessing, B. Reinhold, O. Pedersen* 601

Peripheral Glucose Uptake and Skeletal Muscle GLUT4 Content in Man: Effect of Insulin and Free Fatty Acids *Aa. Handberg, A. Vaag, H. Beck-Nielsen, J. Vinten* ... 605

The Effect of Acipimox in Patients with Type 2 Diabetes and Persistent Hyperlipidaemia *J. D. Dean, S. McCarthy, D. J. Betteridge, C. Whately-Smith, J. Powell, D. R. Owens* ... 611

Conventional and Sprinkler Needle Injection of Magnesium Insulin *S. Colagiuri, J. Bryson, S. Keating, L. Tan, J. King, C. Eigenmann, K. H. Jørgensen* . 616

Differential Effects of Near-normoglycaemia for 4 Years on Somatic Nerve Dysfunction and Heart Rate Variation in Type 1 Diabetic Patients *D. Ziegler, K. Dannehl, K. Wiefels, F. A. Gries* ... 622

The Effect of Insulin Infusion on Capillary Blood Flow in the Diabetic Neuropathic Foot *M. D. Flynn, M. Boolell, J. E. Tooke, P. J. Watkins* ... 630

Does Increased Glomerular Filtration Rate or Disturbed Tubular Function Early in the Course of Type 1 Childhood Diabetes Predict the Development of Nephropathy? *H.-H. Lervang, S. Jensen, J. Brøchner-Mortensen, J. Ditzel* . 635

Increased Incidence of End-stage Renal Failure Secondary to Diabetes Mellitus in Asian Ethnic Groups in the United Kingdom *A. C. Burden, P. G. McNally, J. Feehally, J. Walls* ... 641

Morbidity, Mortality, and Albuminuria in Type 2 Diabetic Patients: a Three-year Prospective Study of a Random Cohort in General Practice *H. Stiegler, E. Standl, K. Schulz, R. Roth, W. Lehmacher* 646

Clinical and Metabolic Characteristics of Type 1 and Type 2 Diabetes: An Epidemiological Study from the Närpes Community in Western Finland *J. Eriksson, B. Forsén, M. Häggblom, A.-M. Teppo, L. Groop* 654

Education and Employment Experiences in Young Adults with Type 1 Diabetes Mellitus *C. E. Lloyd, N. Robinson, J. H. Fuller* 661

Meeting Report

Brittle Diabetes: A Report of the First International Conference on Brittle Diabetes *G. V. Gill* 667

Innovative Care

Editorial: Ownership, Communication and Teams 669

A Party of 43 Young People with Diabetes go Skiing 671

Teacher Training and Children with Type 1 Diabetes 674

Use of a Family Record in Diabetes Clinics 677

Toenail Surgery for Diabetic Patients 680

Pen Injectors—The Way Forward? 684

Facilitation of Diabetes Care in North Tyneside 686

October 1992 — Number 8

DM Diary 692

Editorial

Diabetes and the Clinical Standards Advisory Group *D. R. R. Williams* 695

Review

Blood Glucose Control and Diabetic Microvascular Complications: Long-term Effects of Near-normoglycaemia *K. F. Hanssen, H.-J. Bangstad, O. Brinchmann-Hansen, K. Dahl-Jørgensen* 697

Original Articles

Parity, Ethnic Group and the Prevalence of Type 2 Diabetes: The Coventry Diabetes Study *D. Simmons* 706

The Prevalence, Detection, and Epidemiological Correlates of Peripheral Vascular Disease: A Comparison of Diabetic and Non-diabetic Subjects in an English Community *D. P. Walters, W. Gatling, M. A. Mullee, R. D. Hill* .. 710

Clinical Examination Versus Neurophysiological Examination in the Diagnosis of Diabetic Polyneuropathy *G. D. Valk, J. J. P. Nauta, R. L. M. Strijers, F. W. Bertelsmann* 716

The Effect of Weight-bearing Pressure on the Plantar Circulation in Diabetes Mellitus *E. Proano, H. Määtänen, L. Perbeck, G. Solders, I. Turan* 722

Prevalence of Haemochromatosis Amongst Patients with Diabetes Mellitus *B. M. Singh, R. A. Grunewald, M. Press, B. R. Muller, P. H. Wise* 730

Effect of Chronic ACE Inhibition on Glucose Tolerance and Insulin Sensitivity in Hypertensive Type 2 Diabetic Patients *G. Seghieri, W. Yin, C. Boni, G. Sanna, R. Anichini, G. Bartolomei, E. Ferrannini* 732

Influence of Ripeness of Banana on the Blood Glucose and Insulin Response in Type 2 Diabetic Subjects *K. Hermansen, O. Rasmussen, S. Gregersen, S. Larsen* 739

Distinguishing Between Persistent and Transient Impaired Glucose Tolerance Using a Prediction Model *D. M. Bourn, S. M. Williams, J. I. Mann* 744

Clinical Practice

Foot Infections in Diabetes are Rarely Due to a Single Microorganism *J. A. Hunt* 749

An Audit of the Management and Outcome of Hospital Inpatients With Diabetes: Resource Planning Implications for the Diabetes Care Team *E. A. Masson, I. A. MacFarlane, E. Power, M. Wallymahmed* 753

The Effect of a City-wide Mass Media Campaign on the Public Awareness of Diabetes *N. D. Penn, C. Stevenson, C. McMahon, H. J. Bodansky* 756

BDA Report

A Proposal for Continuing Audit of Diabetes Services *D. R. R. Williams, P. D. Home and Members of a Working Group of the Research Unit of the Royal College Physicians and British Diabetic Association* 759

VOLUME CONTENTS

Case Report — **Evidence for Reversibility of Defective Counterregulation in a Patient with Insulinoma** *A. Maran, J. Taylor, I. A. Macdonald, S. A. Amiel* 765

Rostrum — **The Role of the General Practitioner in Diabetes Care** *I. J. Benett* 769

Living with Diabetes — **Description of a Diabetes Support Group: Lessons for Diabetes Caregivers** *E. L. Toth, I. James* 773

Letters — **Resistance to Injection: The 1991 RD Lawrence Lecture** *R. Taylor* 779

Human Insulin and Lipoatrophy *M. D. Page, H. J. Bodansky* 779

Disposal of Needles and Plastic Syringes *D. K. Chadha, B. I. Chazan* 779

Type 1 Diabetes in Children in Riyadh: Seasonal Variation *H. Salman* 780

Failure to Detect Autoantibodies to Islet Amyloid Polypeptide in Sera from Type 1 Diabetic Patients *A. B. Tuck, T. J. Wilkin* 781

Media Review 782

Diabetes Care — **Contents Page – Volume 15 Number 7 (1992)** *by arrangement with the American Diabetes Association* 783

November 1992 — Number 9

DM Diary 788

Editorial — **The Diabetes Specialist Nurse: An Evolving Role** *H. Siddons* 790

Review — **The 1992 R. D. Lawrence Lecture. The Regulation of Insulin Gene Expression** *K. Docherty* 792

Original Articles — **Autonomic Function Testing in Diabetic Subjects Using Sequential Measurements** *G. P. Lawrence, P. D. Home, A. Murray* 799

Prevalence of Cardiovascular Autonomic Dysfunction Assessed by Spectral Analysis, Vector Analysis, and Standard Tests of Heart Rate Variation and Blood Pressure Responses at Various Stages of Diabetic Neuropathy *D. Ziegler, K. Dannehl, H. Mühlen, M. Spüler, F. A. Gries* 806

Feeding in Infancy and the Risk of Type 1 Diabetes Mellitus in Finnish Children *S. M. Virtanen, L. Räsänen, A. Aro, K. Ylönen, R. Lounamaa, H. K. Åkerblom and the 'Childhood Diabetes in Finland' Study Group* 815

High Prevalence of Gestational Diabetes in Women from Ethnic Minority Groups *A. Dornhorst, C. M. Paterson, J. S. D. Nicholls, J. Wadsworth, D. C. Chiu, R. S. Elkeles, D. G. Johnston, R. W. Beard* 820

Morning versus Bedtime Isophane Insulin in Type 2 (Non-insulin Dependent) Diabetes Mellitus *D. E. Seigler, G. M. Olsson, J. S. Skyler* 826

Relationship Between Insulin Injection Regimen and Metabolic Control in Young Danish Type 1 Diabetic Patients *H. B. Mortensen, J. Villumsen, Aa. Vølund, K. E. Petersen, J. Nerup and the Danish Study Group of Diabetes in Childhood* 834

Assessment of Glucose Turnover Rates in Euglycaemic Clamp Studies using Primed-constant [3-^{3}H]-glucose Infusion and Labelled or Unlabelled Glucose Infusates *O. Hother-Nielsen, A. Mengel, J. Møller, O. Rasmussen, O. Schmitz, H. Beck-Nielsen* 840

Clinical Practice — **Hospital Admissions of Adolescent Patients with Diabetes** *A. H. Challen, A. G. Davies, R. J. W. Williams, J. D. Baum* 850

Benefits Provided by an Integrated Education and Clinical Diabetes Centre: A Follow-up Study *J. L. Day, J. Metcalfe, P. Johnson* 855

A Community Survey of Diabetes in the Elderly *T. L. Dornan, G. M. Peck, J. D. C. Dow, R. B. Tattersall* 860

Living with Diabetes — **Diabetes Self Help Facilitated by Local Diabetes Research: The Coventry Asian Diabetes Support Group** *D. Simmons* 866

Meeting Reports — **The Diabetic Foot 1992** *M. J. Young, H. Connor, A. J. M. Boulton* 870

Meeting Report on the Medical and Scientific Section Autumn Meeting of the British Diabetic Association, St Andrews, Scotland, September 1992 *E. A. Masson* 873

VOLUME CONTENTS

Letter	**Reduced Endothelium-mediated Relaxing Responses in Peripheral Atherosclerotic Arteries from Patients With and Without Diabetes Mellitus** *E. Salas, J. Berrazueta, M. Fleitas, J. Poveda, A. Ochoteco, J. Amado*	875
Media Review		877
Diabetes Care	**Contents Pages – Volume 15 Numbers 7 and 8 (1992)** *by arrangement with the American Diabetes Association*	879

December 1992 — Number 10

DM Diary		884
Editorial	**The Annual Review: Here to Stay** *A. J. M. Boulton*	887
Review	**Erectile Impotence in Diabetic Men: Aetiology, Investigation, and Management** *P. G. Wiles*	888
Original Articles	**Impotence in Diabetes: Aetiology, Implications for Treatment and Preferred Vacuum Device** *R. E. J. Ryder, C. F. Close, K. T. Moriarty, K. T. H. Moore, C. A. Hardisty*	893
	A Cross-sectional Study of Echocardiographic Indices, Treadmill Exercise Capacity and Microvascular Complications in Nigerian Patients with Hypertension Associated with Diabetes Mellitus *R. O. Babalola, A. A. Ajayi*	899
	Risk Factors for Peripheral Vascular Disease in Hypertensive Subjects with Type 2 Diabetes Mellitus *J. C. Alcolado, P. J. Pacy, M. Beevers, P. M. Dodson.*	904
	A Double Blind Study of the Effect of Acipimox on Serum Lipids, Blood Glucose Control and Insulin Action in Non-obese Patients with Type 2 Diabetes Mellitus *G. R. Fulcher, C. Catalano, M. Walker, M. Farrer, J. Thow, C. R. Whately-Smith, K. G. M. M. Alberti*	908
	Insulin Injection Site Tissue Depths and Localization of a Simulated Insulin Bolus Using a Novel Air Contrast Ultrasonographic Technique in Insulin Treated Diabetic Subjects *J. C. Thow, A. Coulthard, P. D. Home*	915
	A Simple Method for Quantitation of Insulin Sensitivity and Insulin Release from an Intravenous Glucose Tolerance Test *P. Galvin, G. Ward, J. Walters, R. Pestell, M. Koschmann, A. Vaag, I. Martin, J. D. Best, F. Alford*	921
	T-Cell Receptor Constant β Chain Polymorphisms and Susceptibility to Type 1 Diabetes *M. L. Hibberd, B. A. Millward, F. S. Wong, A. G. Demaine*	929
Clinical Practice	**The Quality and Relevance of Peripheral Neuropathy Data on a Diabetic Clinical Information System** *R. B. Jones, R. Gregory, E. W. Jones, D. Kerr, S. P. Allison, A. McLeod, D. M. Titterington, A. J. Hedley*	934
	Prescribing and Dispensing of Insulin: Margins for Error? *M. D. Page, C. Stephenson, R. M. Pope, H. J. Bodansky*	938
	A Survey of Lower Limb Amputation in Diabetic Patients *C. Deerochanawong, P. D. Home, K. G. M. M. Alberti*	942
Case Reports	**Staphylococcal Septicaemia Complicating Intracavernosal Autoinjection Therapy for Impotence in a Man with Diabetes** *V. J. Parfitt, R. Wong, A. Dobbie, M. Hartog, J. C. Gingell*	947
	Pre- and Postoperative Glucose Levels for Eliciting Hypoglycaemic Responses in a Patient with Insulinoma *H. Vea, R. Jorde, G. Sager, S. Vaaler, J. Sundsfjord, A. Revhaug*	950
	Phrenic Neuropathy in Association with Diabetes *J. E. S. White, R. E. Bullock, P. Hudgson, P. D. Home, G. J. Gibson*	954
Meeting Report	**American Diabetes Association Annual Scientific Sessions, San Antonio, 20–23 June 1992** *S. Kumar*	957
Media Review		960
Diabetes Care	**Contents Page – Volume 15 Number 10 (1992)** *by arrangement with the American Diabetes Association*	961
Author Index		962
Keyword Index		965
Volume Contents		967
		975